

UNITED STATES PATENT AND TRADEMARK OFFICE

ENITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 WWW.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/758,421	01/16/2004	Atsushi Ooma	247679US2S CONT	5652	
22850	7590 08/10/2004		EXAMINER		
OBLON, SI 1940 DUKE	PIVAK, MCCLELLANI STREET	CREPEAU, JONATHAN			
	RIA, VA 22314		ART UNIT PAPER NUMBER		
			1746		
		DATE MAILED: 08/10/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicatio	n No.	Applicant(s)	
Office Action Summary	10/758,42	1	OOMA ET AL.	
	Examiner		Art Unit	
The MAILING DATE of this communi	Jonathan S	6. Crepeau	1746	
Period for Reply	cation appears on the	cover sneet with the	correspondence ad	dress
A SHORTENED STATUTORY PERIOD FO THE MAILING DATE OF THIS COMMUNIO Extensions of time may be available under the provisions or after SIX (6) MONTHS from the mailing date of this commu If the period for reply specified above is less than thirty (30 If NO period for reply is specified above, the maximum stated in the second of the secon	CATION. of 37 CFR 1.136(a). In no ever unication.) days, a reply within the statut tutory period will apply and will will, by statute, cause the applic	ot, however, may a reply be til ory minimum of thirty (30) day expire SIX (6) MONTHS from	mely filed ys will be considered timely the mailing date of this co	<i>i.</i> mmunication.
Status				
1) Responsive to communication(s) filed	1 on 16 January 2004			
	b)⊠ This action is no			
3) Since this application is in condition f			osecution as to the	merits is
closed in accordance with the practic				onto jo
Disposition of Claims				
4)⊠ Claim(s) <u>1-6</u> is/are pending in the app	alication			
4a) Of the above claim(s) is/are		sideration		
5)⊠ Claim(s) <u>1 and 2</u> is/are allowed.	o william i i on con	sideration.		
6)⊠ Claim(s) <u>3,4 and 6</u> is/are rejected.				
7)⊠ Claim(s) <u>5</u> is/are objected to.				
8) Claim(s) are subject to restricti	ion and/or election red	quirement.		
Application Papers				
9)☐ The specification is objected to by the	Examiner.			
10) The drawing(s) filed on is/are:		objected to by the F	- - - - - - - - - - - - - - - - - - -	
Applicant may not request that any object				-
Replacement drawing sheet(s) including to				R 1 121(d)
11) The oath or declaration is objected to I	by the Examiner. Note	the attached Office	Action or form PTG	O-152.
Priority under 35 U.S.C. § 119				
12) ☐ Acknowledgment is made of a claim fo a) ☐ All b) ☐ Some * c) ☐ None of:	or foreign priority unde	r 35 U.S.C. § 119(a)	-(d) or (f).	
 Certified copies of the priority de 	ocuments have been	received.		
2. Certified copies of the priority de	ocuments have been	received in Application	on No	
Copies of the certified copies of	the priority document	s have been receive	d in this National S	Stage
application from the International				
* See the attached detailed Office action	for a list of the certifie	d copies not receive	d.	
	<i>:</i> :			
Attachment(s)				
Notice of References Cited (PTO-892)	4)	☐ Interview Summary	(PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTC		Paper No(s)/Mail Da	te	. = 4.
 Information Disclosure Statement(s) (PTO-1449 or PT Paper No(s)/Mail Date 1/16/04. 	FO/SB/08) 5)	Notice of Informal Pa	atent Application (PTO-	152)
s. Patent and Trademark Office TOL-326 (Rev. 1-04)	Office Action Summary		t of Paper No./Mail Date	20040800

Application/Control Number: 10/758,421

Art Unit: 1746

DETAILED ACTION

Claim Suggestions

1. In claim 5, "the first water supply path" lacks antecedent basis in some of the parent claims. Appropriate correction is suggested but not required.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 3, 4, and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yasuo et al (U.S. Patent 6,329,094).

The reference is directed to a separator plate for a fuel cell having fuel gas channels (541) on one side thereof and oxidant gas channels (531) on the other side thereof (see Fig. 14). The fuel gas channels are formed substantially linearly in a vertical direction. A water manifold (513) is formed through the separator and is fluidly connected to a channel (slot 516) that is exposed on the oxidant side of the separator (see Fig. 15). The slot corresponds to the claimed "third water supply path." The slot is in communication with through holes (581) that are subsequently in communication with the fuel flow paths via a plurality of fourth water supply paths (561).

Yasuo et al. do not expressly teach that the third water supply path is positioned above a lowermost portion in the vertical direction of the water manifold, as recited in claims 3 and 4.

However, the invention as a whole would have been obvious to one of ordinary skill in the art at the time the invention was made because the artisan would find it obvious to adjust the size or position of the water manifold (513) so that the bottom thereof extends lower than the horizontal plane of the third water supply path. Such a modification would involve only a routine change in size or a rearrangement of the location of the water manifold. It has generally been held that, absent evidence to the contrary, both of these types of modifications are not considered to distinguish over a prior art reference. See MPEP §2144.04. As such, the claimed placement/size of the water manifold in relation to the third water supply path is not considered to distinguish over the reference.

It is further noted that the limitation "water supply means" recited in the claims is not considered to invoke 35 USC §112, sixth paragraph because sufficient structure is subsequently recited that modifies the limitation. See MPEP §2181.

Allowable Subject Matter

- 4. Claims 1 and 2 are allowed.
- 5. Claim 5 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Application/Control Number: 10/758,421

Art Unit: 1746

6. The following is a statement of reasons for the indication of allowable subject matter:

Claims 1 and 2 each recite a plurality of second water supply flow paths that allow communication between the through holes and the first water supply path. Yasuo et al., the closest prior art, does not teach or fairly suggest such a limitation.

Claim 5 recites that a sectional area of the first water supply path branched from the water manifold decreases away from the manifold. Yasuo et al. also does not teach or fairly suggest this feature.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan Crepeau whose telephone number is (571) 272-1299. The examiner can normally be reached Monday-Friday from 9:30 AM - 6:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr, can be reached at (571) 272-1414. The phone number for the organization where this application or proceeding is assigned is (571) 272-1700. Documents may be faxed to the central fax server at (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent
Application Information Retrieval (PAIR) system. Status information for published applications
may be obtained from either Private PAIR or Public PAIR. Status information for unpublished
applications is available through Private PAIR only. For more information about the PAIR

Art Unit: 1746

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jonathan Crepeau Patent Examiner Art Unit 1746 August 9, 2004